

101501196

NEB-198-PCT.ST25.txt DT04 Rec'd PCT/PTO 09 JUL 2004
SEQUENCE LISTING

<110> NEW ENGLAND BIOLABS, INC.

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XU, SHUANG-YONG

<120> ALTERATION OF RESTRICTION ENDONUCLEASE SPECIFICITY BY GENETIC
SELECTION

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<140> PCT/US03/000542

<141> 2003-01-09

<150> US 60/347,403

<151> 2002-01-10

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<170> PatentIn version 3.1

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<212> DNA

<213> *Bacillus stearothermophilus* Y406

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Gln Val His Leu Pro His Ile Trp Glu Glu Ile Gln Glu Ile Ile Val
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144
Ser Ile Asp Ala Glu Ala Cys Arg Thr Lys Glu Ser Lys Glu Lys Thr
35 40 45

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288
Tyr Val Thr Ala Asp Pro Lys Leu Ile Arg Glu Thr Leu Ser Leu Glu
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336

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120

125

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165

170

175

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Lys Gln Gly Gln Ile Leu Tyr Ser Pro Val Ala Leu Asn Glu Ala Phe
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Lys Glu Lys Leu Glu Ala Lys Gly Trp Lys Glu Ser Arg Thr Asn Tyr
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Tyr Val Thr Ala Asp Pro Lys Leu Ile Arg Glu Thr Leu Ser Leu Glu
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Pro Glu Glu Gln Lys Lys Val Ile Glu Ala Ala Gly Lys Glu Ala Leu
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Lys Ser Tyr Asn Gln Thr Asp Phe Val Lys Asp Arg Val Ala Ile Glu
115 120 125

Val Gln Phe Gly Lys Tyr Ser Phe Val Ala Tyr Asp Leu Phe Val Lys
130 135 140

His Met Ala Phe Tyr Val Ser Asp Lys Ile Asp Val Gly Val Glu Ile
145 150 155 160

Leu Pro Met Lys Glu Leu Ser Lys Glu Met Ser Ser Gly Ile Ser Tyr

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175

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